END SEMESTER EXAMINATION - OCTOBER 2025

SEMESTER 5 : INTEGRATED M.Sc. PROGRAMME COMPUTER SCIENCE - DATA SCIENCE

COURSE : **21UP5CRMCP17 : IT AND ENVIRONMENT**

(For Regular 2023 Admission and Supplementary 2022/ 2021 Admissions)

Time : Three Hours   Max. Weightage : 30

PART A
Answer any 8 questions

1. _____ is an academic website founded by HArvard and MIT.
2. _____ is a non profit educational website committed to improving the quality of homeschooling, teaching and student excellence.
3. List three key benefits of using an LMS in an educational setting.
4. Comment on Green use.
5. List the E-waste generators.
6. List the elements of cybersecurity.
7. Expand UDHR
8. Distinguish between phishing and spear phishing.
9. Define the term courseware.
10. Expand SOUL

(1 x 8 = 8 Weight)

PART B
Answer any 6 questions

11. Mention the threats to information security.
12. Briefly explain the working principle of NICNET.
13. Brief on the topic electronic waste (e-waste), and explain why is it considered a growing problem.
14. Examine how e-waste contamination affect soil and groundwater.
15. Differentiate between free and propreitary software.
16. Compare and contrast research repositories and institutional repositories.
17. Discuss the meaning and significance of human rights in today's world.
18. Elaborate on how do online learning platforms and massive open online courses (MOOCs) leverage the internet's capabilities as a repository of educational content.

(2 x 6 = 12 Weight)

PART C
Answer any 2 questions

19. Explain in detail Software Piracy and its types. Explain the steps that can be taken to prevent software piracy.
20. Discuss the core principles of cyber ethics, and their importance in the digital age.
21. Explain in detail various search techniques of Google search engine.
22. Examine how human rights education contribute to raising awareness and promoting a culture of respect for human rights.

(5 x 2 = 10 Weight)